

MEMORANDUM

To: Sooner Dial PA file

From: David S. Crow, OSDH *DS.C*

Re: Sooner Dial

Date: October 21, 1992

On October 20, 1992, Richard Brooks, Gary Amon, and myself travelled to Clinton for the purpose of collecting soil samples of properties adjacent to the Sooner Dial site. We arrived in Clinton at approximately 10:00 a.m., and first stopped at the Clinton County Health Department to meet with Beth Ledbetter, county sanitarian. At approximately 10:30 a.m., the four of us arrived at the Sooner Dial site. The main objective of the sampling event was to determine if off-site contamination exists. The areas that were sampled are the adjacent residences to the west and northwest of the site, and the storm water confluence. In addition, as a result of an inquiry made by a realtor to Beth Ledbetter concerning a vacant building about 200 yards northeast of Sooner Dial, we sampled areas around the vacant building (829 S. 10th St.) that are suspected to receive surface water runoff from the immediate area of the vacant building. The instrument that was used to collect the core and composite samples was a one inch (1") hollow-stem auger. The person who took the samples with the auger was Gary. As a sample was taken, it was placed in a "zip-lock" plastic bag and the bag numbered. Sample depths for samples 1 through 26 ranged from 0 - 12 inches, and samples 27 and 28 sample depth ranged from 0 - 18 inches. In addition, photographs were taken of each sample location.

Further more, we obtained a radioactivity meter from the local Civil Defense to survey for radiation levels within the vacant building. The instrument used was the *OCDM Item no. CD V-700, model no. 6, serial no. 16708*, And was calibrated on 1/92. Gary began the radiation survey in the rear area of the vacant building. Just outside the back door, about one inch above the concrete slab, radiation levels were measured at approximately 1,000 micro-Rotogens/hour (~~u~~R/hr). Next, we entered the unlocked door of the vacant building and continued to measure for radioactivity. In the rear of the building, Gary measured radiation levels of about 100 ~~m~~r/Hr in the general vicinity of the concrete slab floor. Within the rest of the building, radiation levels were virtually undetected. According to Gary, 8 - 9 mR/hr are considered *background radiation levels* for the area of Clinton.

We returned to the County Health Department around 3:30 p.m.. We met with David Wattenberger, health department administrator. We informed him of the Preliminary Assessment performed in August by our division. We also explained our concern for the residences near the Sooner Dial site. I asked if he had any knowledge of an alleged basement or septic system on-site. He was not aware of either, however he suggested we call J.M. Kelly, Cluster County Commissioner, for possible information. His office number is (405) 323-4420. In

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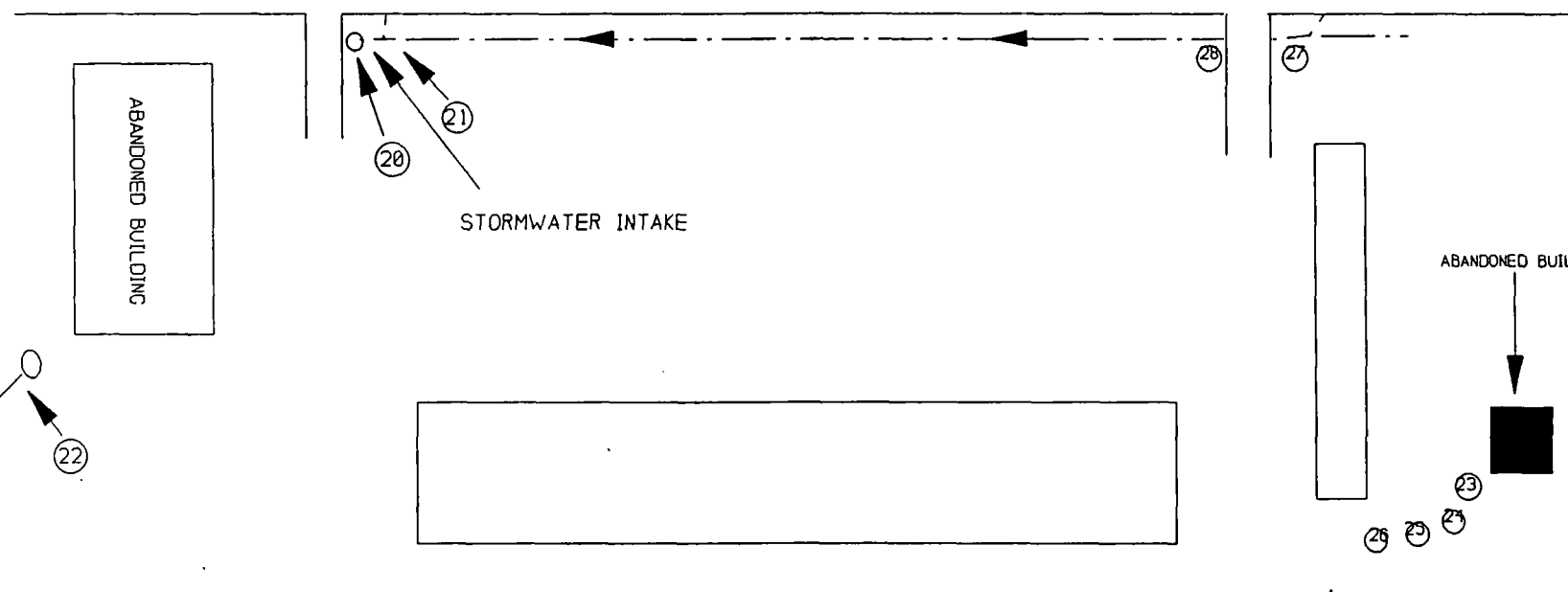
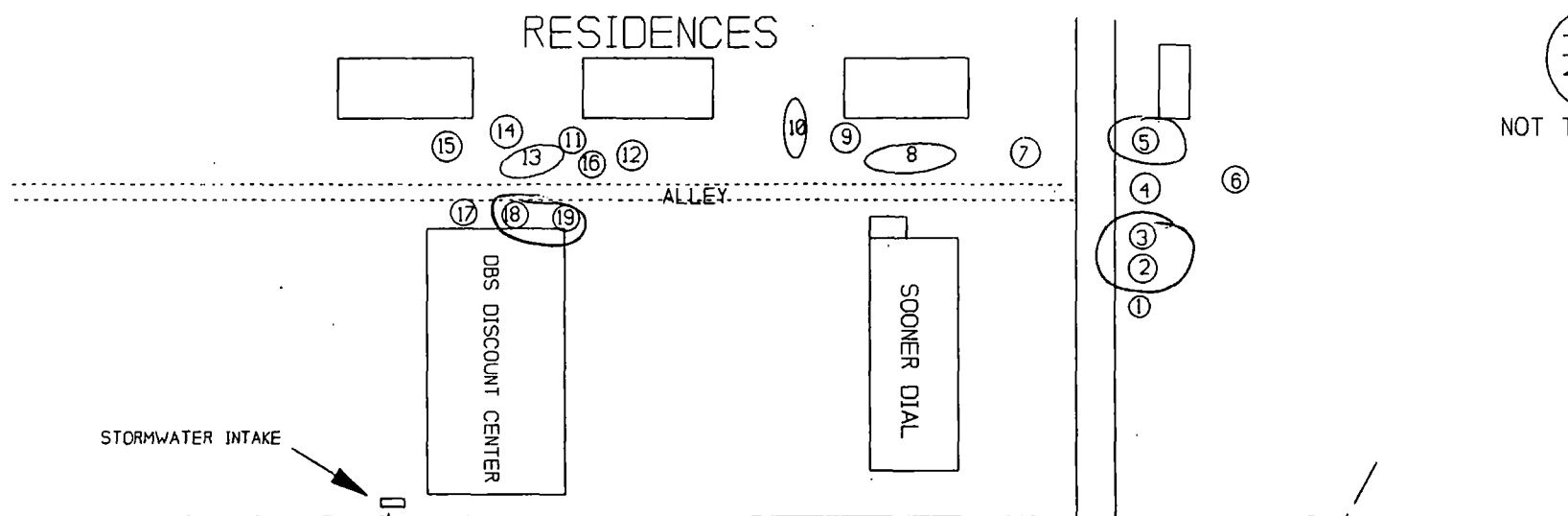
addition, he suggested we call Dick Moles, the Environmental Superintendent for the City of Clinton for possible information. We concluded our visit at about 4:15 p.m. and returned to Oklahoma City.

Attached to this memo is a site map indicating the approximate location of each sample. The following table list the **sample number, type of sample, and depth of sample**. Gary said that he would turn the samples in to the State Environmental Laboratory (SEL). He will make copies of the sample results available to Richard and I when completed.

Sample Number	Type of Sample	Matching Photo No.
1	Composite	11
2	Composite	11
3	Composite	11
4	Composite	11
5	Composite	11
6	Composite	12
7	Core	13
8	Composite	14
9	Composite	15
10	Composite	16
11	Composite	17
12	Core	17
13	Composite	18
14	Composite	19
15	Composite	20
16	Composite	21
17	Composite	22
18	Composite	23
19	Core	24
20	Composite	25
21	Composite	25
22	Composite	26
23	Composite	none taken
24	Composite	none taken
25	Composite	none taken
26	Composite	none taken
27	Composite	none taken
28	Composite	none taken



NOT TO SCALE



LEGEND

① SAMPLE POINT

— DRAINAGE DITCH

SOONER DIAL
10\20\92 SAMPLING EVENT

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
1000 NE 10TH ST
OKLAHOMA CITY OK 73117-1212

RADIOCHEMISTRY LABORATORY

(405) 271-5240

RESULTS OF RADIUM-226 ANALYSES OF CLINTON SOIL SAMPLES

<u>SAMPLE IDENTIFICATION</u>	<u>ANALYSIS DATE</u>	<u>RA-226 (pCi/g)</u>
# 1	03/17/93	< 16
# 2	03/17/93	22
# 3	03/17/93	20
# 4	03/17/93	< 16
# 5	03/18/93	21
# 6	03/18/93	< 16
# 7	03/18/93	< 16
# 8	03/18/93	< 16
# 9	03/18/93	< 16
#10	03/18/93	29
#11	03/22/93	< 16
#12	03/22/93	52
#13	03/22/93	< 16
#14	03/22/93	< 16
#15	03/22/93	< 16
#16	03/22/93	< 16
#17	03/23/93	< 16
#18	03/23/93	40
#19	03/23/93	52
#20	03/23/93	< 16
#21	03/23/93	< 16
#22	03/23/93	< 16
#23	03/23/93	< 16
#24	03/23/93	< 16
#25	03/23/93	< 16
#26	03/23/93	< 16
#27	03/23/93	< 16
#28	03/23/93	< 16

These analyses were calibrated with a radium-226 standard.

08/13/93

Mark Kurklin

Mark Kurklin
ENVIRONMENTAL LABORATORY SERVICE

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